

NPDES Permit Number: MAR10D585

Project Name: **Route 62 Roadway Resurfacing and Reconstruction**
Project Address: Route 62 Concord, Massachusetts
Project Proponent: **Town of Concord Public Works/ MHD**
Report Prepared By: Mary Trudeau, Environmental Consultant
Date of Report/Site Visit: November 20, 2009

Weather this work week was seasonable with rainfall November 25 and 27, 2009 and the precipitation is expected to continue through November 28, 2009.

Work within the locus is largely completed for the season, with work expected to resume in the spring of 2010. To that end, the contractor has initiated slope stabilization work throughout the work area, and has completed much of the drainage outfall and wall work noted in earlier reports. The following photos show some of the work that has been done in recent weeks to stabilize the site:



As noted in past reports, I had concerns with the condition of the stormwater outfall, located on the north side of Route 62, at station point 23+25. The following photo shows the condition of this area at my most recent site visit and the relatively clear stormwater

flows viewed on November 27, 2009. The photo shows the stabilized slope above the outfall, as well as the rip rap placed at the mouth of the outfall pipe.



As noted in past reports, the contractor should restore the downgradient erosion and sedimentation controls, in this location, by replacing the torn and damaged silt filter fabric fencing and by replacing the straw wattle with a new wattle or straw bales. I spoke with Alan Visco on November 20, 2009 and reminded him that this would be a good use for his stockpile of erosion controls.

While I continue to recommend remediation of the areas below the outfall at station point 15+00, on the north side of Route 62, the flows from the outfall appear to be largely free of sediment. With current pavement grading, the outfall does not appear to be receiving flows from catch basins, but as noted in earlier reports, there has been some historic discharge of sediment to down gradient buffer zone and wetland resource areas. While the accumulations are not significant, the contractor should send a laborer to rake and remove any deposits of material. The following photo shows this area:



During the rain event of November 27, 2009, I inspected the newly completed detailing of the slope adjacent to either end of the easternmost retaining wall. This wall is located at approximately station point 27+50, on the south side of Route 62. At my site visit this week, I noted that the area appears stable and water within the downgradient wetland is clear and without evidence of sediment deposition:



I did note that while much of the Route 62 locus is free of construction debris and materials, the contractor has a small stockpile of materials to be removed from the western corner of the Starmet Driveway. I am assuming that these materials will be removed from the locus in the near future.



Also noted in earlier reports, Mrs. Sulewski, a condominium owner on Cranberry Lane noted that a tree fall at the south side of Route 62, at approximately station point 25+75 has fallen into and across her yard. Alan Visco and Minot Wood of EHPerkins Construction have determined that the tree fall is within forty feet of the centerline of the road (and is their responsibility) and that it will be cut and removed when the tree cutting crew returns to the site. The following photo shows the tree roots within the job locus:



In summary, the following is a list of tasks that should be done this week in response to this report, and prior to leaving the site for the winter:

1. The contractor should rebuild the erosion controls below the headwall at station point 23+25 on the north side of Route 62. The area above the outfall has been nicely stabilized, but adding controls below the outfall should be done before leaving the site this fall.
2. The contractor should address the sedimentation that has occurred down gradient of the drainage outfall at the north side of Route 62 at station point 15+00. Raking and hand work is the appropriate remediation.

The contractor has noted that the remaining tree removal work has been postponed until spring of 2010.

Based on my site inspections this week, it is my professional opinion that with the repairs requested or noted above, the project will be in compliance with, both, the NPDES permit and the Order of Conditions issued by the Concord Natural Resources Commission.

Mary Trudeau, Wetlands Consultant
November 27, 2009